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(71) Applicant (for all designated States except US): NSI DEN-TAL PTY LIMITED [AU/AU]; Unit 7, 42 Leighton Place, Hornsby, NSW 2077 (AU):

(72) Inventor; and

(75) Inventor/Applicant (for US only) BANNISTER, Dennis, James [AU/AU]; 81 Grays Lane, Cranebrook, NSW 2749 (AU).

(74) Agent: WATERMARK PATENT & TRADEMARK ATTORNEYS; Bldg 1, Binary Centre, Riverside Corporate Park, 3 Richardson Place, North Ryde, NSW 2113 (AU).

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#### Published:

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DENTAL FORMULATION
(57) Abstract: This invention relates to the exposed dentine in the oral cavity. The pro-(57) Abstract: This invention relates to formulations for treating or reducing dentine hypersensitivity that causes pain arising from exposed dentine in the oral cavity. The present invention seeks to provide formulations for physical blockage of dentinal tubules that have long term effectiveness and cause minimal irritation (if any at all) to the tissues of the oral cavity. Preferred formulations should be easy to apply, be immediately effective and maintain dentinal tubule occlusion under normal teeth cleaning regimes that include regular tooth brushing. The invention provides a formulation for reducing dentine sensitivity in the oral cavity, which incorporates at least one physical desensitising agent in form of a light curable monomer that forms a resilient polymer gel upon curing.







## INTERNATIONAL SEARCH REPORT

International application No. PCT/AU2003/001713

Α.	CLASSIFICATION OF SUBJECT MATTER							
Int. Cl. 7;	A61K 6/083							
According to	International Patent Classification (IPC) or to b	oth national classification and IPC	·					
В.	FIELDS SEARCHED							
Minimum docu	imentation searched (classification system followed)	by classification symbols)						
Documentation	a consched other than minimum documentation to the	exten: that such documents are included in the fields s	earched					
Documentation	I searched other dian infilinian documentation to the	extent that such documents are installed in any installed						
DWPI, CA:		e of data base and, where practicable, search terms used nethacrylate, acrylic, itaconic, diallyloxyacet v, pain and related terms.						
C.	DOCUMENTS CONSIDERED TO BE RELEVA	ANT						
Category*	Citation of document, with indication, where appropriate, of the relevant passages							
х	EP 976386 A (BLOCK DRUG CO. INC Page 3 lines 10-40	1-18						
x	US 5133957 A (SUH et al.) 28 July 1992  X Abstract; Col.1 line 63 - col. 2 line 20							
x	WO 1999/020227 A (DENTSPLY INTE Page 5 line 19 - page 7 line 19	RNATIONAL INC.) 29 April 1999	1-18					
X F	Further documents are listed in the continua	tion of Box C X See patent family	annex					
"A" docume which is relevant "E" earlier	d categories of cited documents: ent defining the general state of the art is not considered to be of particular noe application or patent but published on or its international filing date	later document published after the international filin and not in conflict with the application but cited to to or theory underlying the invention document of particular relevance; the claimed inventionsidered novel or cannot be considered to involve when the document is taken alone	understand the principle tion cannot be					
claim(s publica reason	ent which may throw doubts on priority  s) or which is cited to establish the ation date of another citation or other special (as specified)  ent referring to an oral disclosure, use, "&"	document of particular relevance; the claimed inven considered to involve an inventive step when the do with one or more other such documents, such combi a person skilled in the art document member of the same patent family	cument is combined					
"P" docume	ion or other means ent published prior to the international filing at later than the priority date claimed							
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17 February	2004 ling address of the ISA/AU	2 4 FEB 2004						
	N PATENT OFFICE	Addionized officer						
PO BOX 200,	WODEN ACT 2606, AUSTRALIA	S. Chew						
	:: pct@ipaustralia.gov.au (02) 6285 3929	Telephone No : (02) 6283 2248	Telephone No : (02) 6283 2248					

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International application No.
PCT/AU2003/001713

C (Continuat	ion). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
х	US 5797749 A (BERTOLOTTI et al.) 25 August 1998 Abstract; col. 2 lines 13-35	1-14, 18	
·			
	<u>.</u>	:	



Information on patent family members

International application No. PCT/AU2003/001713

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	t Document Cited in Search Report			Pate	ent Family Member		
EP	0976386	US	6096292				
US	5133957	NONE					
wo	1999/020227	AU	93079/98	BR	9813112	CA	2302281
		EP	1024778	US	2001009931		
US	579749	AU	64640/98	EP	1022995	wo	1998/041165
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